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Search scope: JP ; Full patent spec.

Years: 1971-2002

Text: Patent/Publication No.: JP01044909

[no drawing available]

[Order This Patent](#)[Family Lookup](#)[Citation Indicators](#)[Go to first matching text](#)**JP01044909 A****MULTIPLE FIBER SIMULTANEOUSLY SWITCHING OPTICAL SWITCH**

FURUKAWA ELECTRIC CO LTD:THE

**Inventor(s):**OCHIAI TOSHIHIRO ;KAWAZOE HIDEYO ;YANAGAWA HISAHARU**Application No.** 62200851 JP62200851 JP, **Filed** 19870813,A1 **Published** 19890217

**Abstract:** PURPOSE: To enable the simultaneous switching of multiple optical fibers by forming a 1st ferrule in such a manner that a fitting pin can be moved in a specific direction by a specific distance in the pin hole of said ferrule and moving the 1st and 2nd ferrules relatively to each other.

**CONSTITUTION:** The 1st and 2nd ferrules 11, 12 are butted against each other in such a manner that the fitting pin 13 is held inserted into both the pin holes 16, 18 thereof through the holes. While the 2nd ferrule 12 is fixed to a home position by a housing 19, the 1st ferrule 11 is movable vertically in the housing 19. Namely, the 1st ferrule 11 is pulled downward by a tension spring 2 and is positioned by the fitting pin 13 and the upper optical fibers 14a are opposed to the optical fibers 17 on the 2nd ferrule 12 side while a solenoid 20 is not held energized. The 1st ferrule 11 is attracted by an iron piece 22 fixed to the front face thereof and is again positioned by the pin 13 when the solenoid 20 is energized. This time the lower optical fibers 15a are then opposed to the optical fibers 17a. The simultaneous switching of the multiple optical fibers is thus executed by turning on or off the solenoid 20.

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**Int'l Class:** G02B02608; G02B00638**Patents Citing this One:** No patents have cited this patent.

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Search scope: JP ; Full patent spec.

Years: 1971-2002

Text: Patent/Publication No.: JP63301918

[no drawing available]

[Order This Patent](#)[Family Lookup](#)[Citation Indicators](#)[Go to first matching text](#)**JP63301918 A****MOVABLE FIBER TYPE OPTICAL SWITCH**

NIPPON TELEGR &amp; TELEPH CORP &lt;NTT&gt;

**Inventor(s):**KITAZAWA IWAO ;FUJII YOJI ;NAKAGAWA SEIJI**Application No.** 62138803 JP62138803 JP, **Filed** 19870601, **A1 Published** 19881208

**Abstract:** PURPOSE: To eliminate the need of a delicate adjustment of the titled switch, and to stabilize it even if it is used without a maintenance for a long period of time, by covering each optical fiber end part with the same ferrule, respectively, and attaching a third end part which can be aligned with both of two mating faces, and its holding means through the ferrule.

**CONSTITUTION:** The end part of the first optical fiber 1a and the end part of a second optical fiber 1b are aligned with a V-groove 4a and 4b being two opposed mating faces formed in the inside of a guide 3, respectively. The end parts of each optical fiber 1aW1c are covered with ferrules 2aW2c of the same external form formed by a material whose flexural rigidity is comparatively large, respectively, and the end part of a third optical fiber 1c is attached by a soft structure 13 for allowing a small movement, to a moving pieces 5 through a ferrule 2c. In such a way, an economical movable fiber type optical switch by which the optical axis can be aligned easily, and which is excellent in its stability for a long period of time can be obtained.

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**Int'l Class:** G02B02608;**Patents Citing This One (1):**

- US5512193A1 19960430 Mitsubishi Gas Chemical Company, Inc.  
Low saturated magnetic field bismuth-substituted rare earth iron garnet single crystal and its use



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